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DATE MAILED: 04/07/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

513 7590 04/07/2008 WENDEROTH, LIND & PONACK, L.L.P.

WEIDEROTH, EIND & FONGER, E.E.I 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021

EXAMINER			
KAM, CHIH MIN			
ART UNIT	PAPER NUMBER		

 APPLICATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBUTION NO.

 10/532/986
 06/27/2005
 Gen Kondoh
 2005_0733A
 5785

TITLE OF INVENTION: DRUG CONTAINING ANGIOTENSIN CONVERTASE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	07/07/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	or transmitting the ISS ig the Patent, advance of nerwise in Block 1, by (OE PEE and PUBLICATI orders and notification of r (a) specifying a new corres	naintenance fees wil pondence address; a	ed). Blocks I through 5 Il be mailed to the curre and/or (b) indicating a se	o should be completed where ent correspondence address as eparate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
2033 K STREET SUITE 800				Certi	ficate of Mailing or Tra		
WASHINGTON	, DC 20006-1021					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	. CONFIRMATION NO.	
10/532,986	06/27/2005		Gen Kondoh		2005_0733A	5785	
TITLE OF INVENTION	: DRUG CONTAINING	ANGIOTENSIN CONV					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(8) D	UE DATE DUE	
nonprovisional	YES	\$720	\$300	\$0	\$1020	07/07/2008	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
KAM, CI		1656	514-012000	-			
I. Change of correspondence address or indication of 'Tee Address' C7 CFR 1.863. Change of correspondence address (or Change of Correspondence Address Sen PIOSB/122) attached. Tee Address' indication for 'Tee Address' Indication form PTOSB/147 attached. The Address' indication for 'Tee Address' Indication form PTOSB/147; We 0.0-92 or more recens) attached. Use of a Custome Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			or agents OR, alternation (2) the name of a single registered attorney or a 2 registered patent attorney on a single registered patent attorney or a single registered patent attorney or a single register.	the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm thaving as a member a glestered attorney or agent) and the names of up to geistered patent attorneys or agents. If no name is get on the printed, and on the printed, and the printed attorney or agents. If no name is a			
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	s SMALL ENTITY state	as. See 37 CFR I.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademarl	ed from anyone other than t k Office.	he applicant; a regist	ered attorney or agent; or	r the assignee or other party in	
Authorized Signature				Date			
Typed or printed name Registration No							
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var- rden, should be sent to the ONOT SEND FEES OR	ion is required to obtain or re 1.14. This collection is est y depending upon the indivi- he Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public which is to file (c inutes to complete, inclu- ments on the amount of rademark Office, U.S. D SEND TO: Commission	and by the USPTO to process) ding gathering, preparing, and time you require to complete epartment of Commerce, P.O. er for Patents, P.O. Box 1450,	

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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DATE MAILED: 04/07/2008

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,986	06/27/2005		06/27/2005 Gen Kondoh		5785
513	7590	04/07/2008		EXAM	INER
WENDEROTH, LIND & PONACK, L.L.P.			KAM, CHIH MIN		
2033 K STREE	TN.W.			ART UNIT	PAPER NUMBER
SUITE 800 WASHINGTON	N. DC 200	06-1021		1656	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 397 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 397 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/532,986	KONDOH, GEN	
Examiner	Art Unit	
CHILL MINI KAM	1656	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 12/28/07.
- 2. The allowed claim(s) is/are 1-4 and 8.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. \(\subseteq \text{ Certified copies of the priority documents have been received.} \)
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 12/28/07
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. ☐ Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Chih-Min Kam/

Primary Examiner, Art Unit 1656

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DETAILED ACTION

Status of the Claims

Claims 1-4 and 8 are pending.

Applicants' amendment filed December 28, 2007 is acknowledged. Applicants' response has been fully considered. Claims 1-4 and 8 have been amended, and claims 5-7 and 9-19 have been cancelled. Therefore, claims 1-4 and 8 are examined.

Withdrawn Informalities

The previous objection to the specification regarding the sequence identifier (SEQ ID NO:) is withdrawn in view of applicants' amendment to the specification, and applicants' response at page 6 in the amendment filed December 28, 2007.

Withdrawn Claim Objections

3. The previous objection to claims 6, 7, 9, 10 and 14-19 is withdrawn in view of applicants' amendment to the claims, applicants' cancellation of the claims, and applicants' response at page 6 in the amendment filed December 28, 2007.

Withdrawn Claim Rejections - 35 USC § 112

- 4. The previous rejection of claims 1-7 and 11-19 under 35 U.S.C. 112, first paragraph, written description and scope of enablement, is withdrawn in view of applicants' amendment to the claim, applicants' cancellation of the claims, and applicants' response at pages 6-9 in the amendment filed December 28, 2007.
- 5. The previous rejection of claims 1-7 and 11-19 under 35 U.S.C. 112, second paragraph, is withdrawn in view of applicants' amendment to the claim, applicants' cancellation of the claims, and applicants' response at page 9 in the amendment filed December 28, 2007.

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Art Unit: 1656

Withdrawn Claim Rejections - 35 USC § 102

6. The previous rejection of claims 1-4 under 35 U.S.C. 102(a) as being anticipated by Ko et al. (JP 2001-316287), is withdrawn in view of applicants' amendment to the claims, and applicant's response at pages 9-10 in the amendment filed December 28, 2007.

- 7. The previous rejection of claims 8-10 under 35 U.S.C. 102(b) as being anticipated by Wei et al. (J. Biol. Chem. 266, 9002-9008 (1991)), is withdrawn in view of applicants' amendment to the claims, applicants' cancellation of the claims, and applicant's response at pages 9-10 in the amendment filed December 28, 2007.
- 8. The previous rejection of claim 8 under 35 U.S.C. 102(b) as being anticipated by Sen et al. (J. Biol. Chem. 268, 25748-25754 (1993)), is withdrawn in view of applicants' amendment to the claims, and applicant's response at pages 9-10 in the amendment filed December 28, 2007.

Examiner's Amendment

An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Schmidt on March 28, 2008.

Examiner's Amendment to the Claims:

Claims 1-3 have been amended as follows:

(Currently amended) A pharmaceutical composition for treating and/or preventing a disease by releasing glycosylphosphatidylinositol (GPI)-anchored protein from the cell surface, said composition comprising a mutant angiotensin-converting enzyme (ACE) consisting of the amino acid sequence of SEQ ID NO: 4 except Glu at position 414 is

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Art Unit: 1656

substituted with Asp; and a pharmaceutically acceptable carrier, wherein the disease is a prionrelated disease, a bacterial infectious disease or male infertility due to sperm abnormality.

- (Currently amended) The pharmaceutical composition of claim 1, wherein the disease is a prion-related disease[[s]].
- (Currently amended) The pharmaceutical composition of claim 1, wherein the disease is <u>a</u> bacterial infectious disease[[s]].

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Min Kam whose telephone number is (571) 272-0948. The examiner can normally be reached on 8.00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathleen Bragdon can be reached at 571-272-0931. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1656

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Chih-Min Kam/ Primary Examiner, Art Unit 1656

CMK March 28, 2008